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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/891,224	06/26/2001	Guojun Zhou	P 280337 P11803	8571
27496 7	7590 07/26/2005		EXAMINER	
PILLSBURY WINTHROP SHAW PITTMAN LLP			AZAD, ABUL K	
725 S. FIGUEI	ROA STREET			
SUITE 2800			ART UNIT	PAPER NUMBER
LOS ANGELES, CA 90017			2654	
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/891,224	ZHOU, GUOJUN			
		Examiner	Art Unit			
		ABUL K. AZAD	2654			
Period for	The MAILING DATE of this communication app Reply	pears on the cover sheet with the c	correspondence address			
THE M - Extens after S - If the p - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR REPLY IAILING DATE OF THIS COMMUNICATION. ions of time may be available under the provisions of 37 CFR 1.1 IX (6) MONTHS from the mailing date of this communication. reriod for reply specified above is less than thirty (30) days, a reply beriod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute ply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠ F	Responsive to communication(s) filed on 24 A	ugust 2004.				
<i>'</i>		action is non-final.				
3) 🗌 🤄						
Dispositio	on of Claims					
4) ☐ Claim(s) 1-5,8-13,16-22 and 25-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-5,8-13,16-22 and 25-27 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Applicatio	on Papers					
9)□ ⊤	he specification is objected to by the Examine	r.				
10)⊠ The drawing(s) filed on <u>26 June 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correct he oath or declaration is objected to by the Ex					
Priority ur	nder 35 U.S.C. § 119		•			
a)	cknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority document Copies of the certified copies of the priority document application from the International Bureause the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(□				
2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	r (PTO-413) ate Patent Application (PTO-152)			

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DETAILED ACTION

Election/Restrictions

- 1. Applicant's election without traverse of 1-5, 8-13, 16-22 and 25-27 in the reply filed on August 24, 2004 is acknowledged.
- 2. Claims 1-5, 8-13, 16-22 and 25-27 are pending in this action. Claims 1, 4, 5, 8-13, 17-22 and 25-27 have been amended. Claims 6, 7, 14, 15, 23 and 24 have been canceled.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 3,4, 8-10, 12, 16-19, 21 and 25-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Abella et al. (US 6,044,347).

As per claim 1, Abella teaches, "a statistical dialog system," comprising:

"a speech understanding mechanism for determining the literal meaning of input speech data" (col. 7, lines 53-63);

"a dialog semantics learning mechanism for establishing semantic models based on annotated dialog training data, the annotated dialog training data associating literal meaning of input speech data with one or more semantic meanings of the input speech data" (col. 8, lines 22-50); and

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"a statistical dialog manager for interpreting one semantic meaning of the input speech data based on both the literal meaning of the input speech data and corresponding semantic models that are associated with the literal meaning of the input speech data" (col. 7, lines 47-67).

As per claim 3, Abella teaches, "further comprising a responding mechanism for generating at least one response to the input speech data based on the semantic meaning of the input speech data" (col. 8, lines 1-21).

As per claim 4, Abella teaches, "wherein the responding mechanism includes a voice response mechanism for generating a voice response to the input speech data based on the semantic meaning of the input speech data; and an action response mechanism for activating an action corresponding to the semantic meaning of the input speech data" (col. 8, lines 1-33).

As per claim 8, Abella, teaches, "a system", comprising:

"a semantic model retrieval mechanism for retrieving, from a semantic model storage, semantic models associated with a literal meaning of input speech data" (col. 7, lines 47-67); and

"a dialog semantic understanding mechanism for interpreting, during a dialog session, the semantic meaning of the input speech data according to the semantic models and an environmental status" (col. 13, line 50 to col. 14, line 10 and col. 15, line 65 to col. 16, line 24).

As per claim 9, Abella teaches, "an environmental status access mechanism for accessing the environmental status that affects the interpretation of the semantic

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meaning of the input speech data, the environmental status being used, together with the semantic models, by the dialog semantic understanding mechanism to interpret the semantic meaning of the input speech data" (col. 13, line 50 to col. 14, line 10 and col. 15, line 65 to col. 16, line 24); and

"a dialog data annotation mechanism for annotating the relationship between said literal meaning of the input speech data and the semantic meaning of the input speech data based on the dialog session to generate feedback dialog data" (col. 13, line 50 to col. 14, line 10 and col. 15, line 65 to col. 16, line 24).

As per claims 10, 12, 16-19, 21 and 25-27, they are interpreted and thus rejected for the same reasons set forth in the rejection of claims 1, 3, 4, 8 and 9.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 2, 11 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Abella et al. (US 6,044,347) as applied to claims 1, 10, and 19 above, and further in view of Huang et al. (US 6,865,528).

As per claims 2, 11 and 20, Abella does not explicitly teach speech recognition based on at least one acoustic model and a language understanding mechanism.

However, Huang teaches speech recognition based on at least one acoustic model and

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a language understanding mechanism (col. 5, lines 25-54). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to use acoustic model and language model to speech recognizer because Huang teaches his invention attempts to ascertain the accurate meaning or intent of the utterance in order to perform a particular action (col. 1, lines 50-67).

7. Claims 5, 13 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Abella et al. (US 6,044,347) as applied to claims 4, 12 and 21 above, and further in view of Papineni et al. (US 6,246,981).

As per claim 5, Abella teaches, "wherein the voice response mechanism comprises:

"a language response generation mechanism for generating a language response to the input speech according to the semantic meaning of the input speech data" (col. 8, lines 1-21); and

Abella teaches synthesizing the voice of the language response to generate the voice response (Fig. 1, elements 20 and 22), but does not explicitly teach a text to speech engine. However, Papineni teaches a text to speech engine (Fig. 1, element 70). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to use a text to speech engine because Papineni invention provide a more versatile interface for interacting with the users (col. 1, lines 6-10).

As per claims 13 and 22, they are interpreted and thus rejected for the same reasons set forth in the rejection of claims 5.

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Contact Information

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ABUL K. AZAD whose telephone number is (571) 272-7599. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHEMOND DORVIL can be reached on (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

July 17, 2005